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STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

то :	The Files	DATE: 1 June 1954	
FROM :		·	25X1
subject:	Trip Report - Contract PSC-148-UNV		
Illi the	l. A visit was made to the facilit nois, during the period 24-27 May 19 subject contract.	cies of, Chicago, 54 to discuss matters pertaining to	25X1
Cont 25 R	hanv expressed the wish that we would	which had been originated by the were informed that a pilot run of me test results were available. The discuss the pilot run test results gain authorization for full production.	
	Plant Proje Asst. Engin	Engineering ct Engineer Project Engr. eering Production eering Production ab CIA	<sup>2</sup> 25X
be :	at the nuction representatives and assurance investigated. A matter not resolved ibration accuracy of the RR-6 and RR	-6A and the subject of TAR 26 and 27	25X1 25X1
not was	able to supply the condenser with t either take what was available or c s not appear evident from the follow	ease production. That this is true	25 <b>X</b> 1
		s of from the Radio Condenser claims that the condensers meet sed by Navy Inspectors at their	25 <b>X</b> 1

COMPLETE

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b.	Quality control of stated that almost a 100% inspection of the condensers are made and that tolerances are generally within .2 mmf per 10 degree rotation. (Better than specifications).	25X1
<b>c.</b>	pointed out to may be aligning the RR-6 receivers with the incorrect capacitor minimum. The correct minimum lies 180 degrees from fully closed. A second and incorrect capacitor minimum exists with an approximate 190 degrees of rotation from fully closed, and that a quick check on correct minimum is to tune the receiver beyond the 15 megacycle point where a 15 megacycle signal should again be observed. If this cannot be accomplished the wrong minimum has been used with resultant calibration inaccuracies.	25X1 25X
<b>d∙</b>	Production Engineering indicated the possibility of condenser characteristics being changed due to the strain exerted on the component when screwed to the receiver housing.	
equaled the be devoted t	agreed that it was hardly position that they are equipment that neither met the equipment specifications nor delivered prototypes. It was agreed that the following day would so discussing the pilot run of the RS-6A equipment, and that the people would be excluded from such talks in order to minimize	25 <b>X</b> 1
6. Tue	esday morning, due to the non-availability of was	25X1
of equipment spring on th by an extend line present tautness can	Are. Christopher Maren, the Navy Inspector. Mr. Maren was unaware defects noted by	25X
was made to		25X1
	made to production engineerings screen room and	25 <b>X</b> 1
could not br	the phasing operation as conducted by ring the unit within any degree of calibration accuracy required fication. It seemed apparent that once a condenser is knifed a restored to nominal tolerances.	25 <b>X</b> 1

7. The afternoon was devoted to a study of the RS-6A pilot run test data. The data available indicated that the equipment specifications had not been met on several instances and further that realistic characteristics



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to be derived as a result of the pilot run are lower than might be anticipated. The principal defects are poor calibration accuracy of the receiver and reduced power output of the transmitter. Although the image rejection of the accepted prototypes is 33.6 decibels at 22 megacycles, the test results of the 25 pilot run receivers range from 26 to 18.2 decibels at 22 megacycles, the nominal image rejection being 22 decibels. The undersigned expressed the view that further relaxation of the equipment specifications would not	
be favorably received by the Agency and suggested that an engineering investigation be undertaken by to determine the causes for downgraded characteristics. took this as meaning that they would run tests on new equipment and submit such data to the Agency. It was pointed out that what was wanted was an engineering investigation directed	25X1 25X1
towards improving the equipments characteristics on the production line. It was agreed that would make such an investigation and that such an investigation would take approximately two weeks and that improved quality	25X1
control of the production line would be inserted on a running basis.  indicated that initial production would be at a rate of approximately 12 sets per day (50% of normal) and that the initial 50 sets produced would be the subject of an engineering investigation. The undersigned agreed to accept a temporary TAR providing the engineering investigation was written into it and that it would be subject to approval by the Washington, D. C. Office.  had to leave for New York because of a death in the family and was not present at hereafter.	25X1 25X1 25X1
8. The following day was spent in gathering test data and assisting in the preparation of the TAR. It might be pointed out that all test data on the transmitter was not available since the initial data presented was found to be in error. Consequently, new and only spot check data was gathered on the pilot run transmitters for minimum power output and these data were incorporated into the TAR by Further reluctance at acceptance of the TAR Thursday Noon, at which time it was completed, came with indications that the transmitter's harmonic radiation exceeded specifications and that further relaxation would be sought by the Contractor.	25 <b>X</b> 1
9. It would be desirable if our calibration accuracy requirements were supported by a curve. The specifications stipulate a maximum calibration error that may exist over a portion of the frequency coverage	25X1
error would decrease with frequency. phasing of the units does not reflect such design and consequently with the maximum or near maximum error existing at the low frequency the fiduciary does not correct the	25X1

error existing at the low frequency the fiduciary does not correct the

error.

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an introduction was made a civilian representative from the Rome Air Development New York.  Said their laboratory had conduction on Yardney Silvercels and that they had experienced to the said that they had experienced the said that they had experienced to the said that they had experienced the said that they had experienced the said that they had the said that t	ent Center, Rome, acted extensive tests excellent reliability.	
They had however, experienced the blowing up of mercal	oury cells until the ata on their battery 25	X′
	25X	<b>(</b> 1